

COMPLETE SOLUTIONS FOR ON-DEMAND CD & DVD PRODUCTION





Photo-Quality CD/DVD Inkjet Printer

OPERATING & MAINTENANCE MANUAL



Thank you for purchasing a MF Digital OptiPrinter

OPERATING & MAINTENANCE MANUAL

Document Reference No. TP 000 022 (Rev 1.03)

Production Standard

ZZ 004 805

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WARNING

To avoid electrical shock hazards, unit covers should only be removed by authorized personnel.



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SECTION 1: INTRODUCTION

1.1 Overview

MF Digital, world leading developers & manufacturers of optical disc duplication & printing systems, has launched a brand new, drawer mechanism CD/DVD printer: the OptiPrinter™.

Working in partnership with Hewlett-Packard, the OptiPrinter™ brings professional print quality to the in-house production of CDs and DVDs, delivering outstanding photo quality images directly onto the surface of discs, enabling customers to choose colorful backgrounds and images that reflect their company.

What's more, the OptiPrinterTM has been specifically designed to provide maximum versatility and high-speed printing and can be used in a variety of settings. The PC-based OptiPrinterTM offers professional desktop printing for the low volume/small business user, while the OptiPrinterTM can also be used in conjunction with an autoloader or automated disc duplicator for fast, unattended printing of greater quantities.

1.2 Features

- Professional, photo quality CD & DVD inkjet printer
- Desk-top printer
- Combine with autoloader
- Direct to surface color inkjet printing
- Laser-sharp printing
- Perfect clean crisp graphics
- High speed printing
- 4800 dpi resolution with 16.7 million colors
- Uses standard, off-the-shelf HP high capacity & standard print cartridges
- Hewlett-Packard inkjet Technology
- Smallest ink droplet (5 pl) technology

1.3 Specifications

Minimum System

Media Support:

Requirements: Windows 2000: Pentium 133MHz, 64Mb RAM; Windows XP: Pentium 233 MHz, 128 Mb RAM

WINDOWS AF. FEITHUIN 233 WINZ, 120 WID A

Power Requirement: 100 to 240 VAC, 50/60Hz

Environment: Recommended operating temperature: 15 to 365 °C

Recommended operating humidity: 20 to 80% RH no condensing

Dimensions: Width: 17.8" (453mm) Depth: 18.11" (460mm) Height: 7.16"

(182mm) Net Weight: 6.2kg/13.5lbs (approx. without cartridges) Prints directly onto the surface of inkjet printable 120mm CDs &

DVDs, 86x61mm rectangular and 80mm x 61mm & 80mm x

x63mm saddle CD business cards & 80mm mini discs

Connectivity: Bi Universal Serial Bus. 2.0 Full Speed (USB), centronics parallel

IEEE-1284 compliant.

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Maximum Resolution: Black: 600 x 600 dpi

Color: 4800 x 1200 optimized dpi color printing on premium photo

papers with 1200 x 1200 dpi input dpi resolution.

Full color spectrum of 16.7 million colors. HP PhotoREt III Color Management System

Print Speed: 25% mono coverage @ normal, text quality approx.* 16-19

seconds per disc

100% full color coverage @ normal. inkjet quality approx.* 60

seconds per disc

100% full color coverage @ best, inkjet quality approx.* 106

seconds per disc

100% full color coverage @ best, HP PhotoREt III true photo

quality approx. * 120 seconds per disc

(*Speeds given are approximations and are dependant on file size and

disc coverage)

Cartridges: Dual Ink Cartridges: Standard HP Black Print Cartridge 51645A

Standard HP Color Print Cartridge C6578D; Large capacity color

cartridge: C6578AN

SECTION 2: BOX CONTENTS

Carefully remove your MF Digital OptiPrinter from its shipping carton and verify that all parts are present. If there are missing or damaged parts contact MF Digital or an authorized distributor immediately.

You should find the following:

- ➤ MF Digital OptiPrinter
- Power Cable
- USB Cable
- Quick Start Guide
- CD, including Printer Driver, User Manual, Test Image, Templates
- 2 Blank Printable CDs
- One Black & One Color Cartridge
- Discus Graphics Software CD



Note:

Be sure to remove all pieces of protective tape. Remove the tape holding down the printer lid. Open the lid and remove the 2 pieces of tape holding the CD Tray in place.



Note:

If your MF Digital OptiPrinter is damaged during shipment, please contact the freight carrier first, then, contact your distributor or MF Digital. You should save your shipping materials so that if the need arises, you can return your OptiPrinter for service. This packaging was designed specifically for shipping your OptiPrinter. Other packaging may not be suitable.

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SECTION 3: CONNECTING YOUR OPTIPRINTER

- 1. Connect the USB cable port on the computer and on the printer.
- 2. Connect the power cable to the printer and plug into the power supply.
- 3. Power up the OptiPrinter by pressing the Power Button (see Fig. 1)
- 4. The Power Button light and the Resume Button light will be illuminated (see Fig. 1)



Note:

When you power up your OptiPrinter, the CD tray will either eject automatically or remain inside the printer.

SECTION 4: BUTTONS & LIGHTS

The Printer Buttons let you turn the printer on & off, cancel a print job, or resume printing. The lights give you visual clues about the status of the printer.

4.1 Cancel Button



Cancel Button

Print Cartridge Status Light

Resume Button & Light

Power Button & Light

Fig. 1

Pressing the Cancel Button cancels the current print job.

4.2 Print Cartridge Status Light

This light flashes when a print cartridge is low in ink or incorrectly installed, or the printer's top cover is open.

4.3 Resume Button & Light

This light is illuminated when you first power up your OptiPrinter, and indicates that there is no CD in the printer.

This light will also flash when an action is required such as loading a CD or clearing a CD jam. When the action is completed, press the Resume Button to continue printing.

4.4 Power Button & Light

The Power Button turns the printer on & off. It may take a few seconds for the printer to turn on after you press the Power button. The green light flashes when the printer is processing.

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Caution!

Always use the Power button to turn the printer on & off. Using a power strip, surge protector, or a wall-mounted switch to turn the printer on & off may cause printer failure.

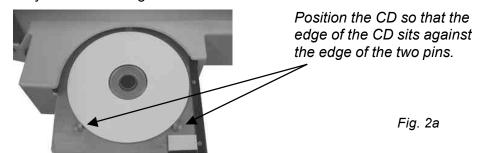
4.5 CD Tray Button

Pressing this button will slide the CD tray back and forth into the printer.

SECTION 5: INSERTING A CD INTO THE PRINTER

5.1 Standard 120mm CDs & DVDs

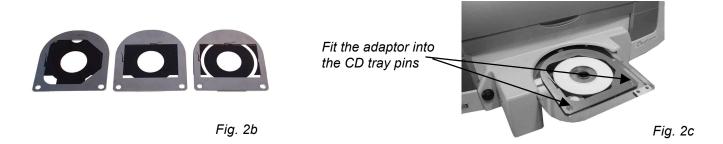
With your OptiPrinter switched on, press the CD Tray Button on the front, left of the printer (see Fig.1) and the CD tray will slide out. Place a CD onto the tray ensuring that the disc sits against the two pins at the front of the tray as shown in Fig. 2a



Press the CD Tray Button once again and the tray slides back into the printer. The Resume button light will go out at this point.

5.2 CD Business Cards & Mini Discs

The OptiPrinter will also print directly onto inkjet printable CD Business Cards (rectangular and saddle/hockey rink) and Mini Discs, via the special adaptors, which can be purchased separately (Fig.2b). Place the adaptors onto the CD tray making sure that the 2 pins on the tray fit snugly into the corresponding holes on the adaptor (Fig. 2c).



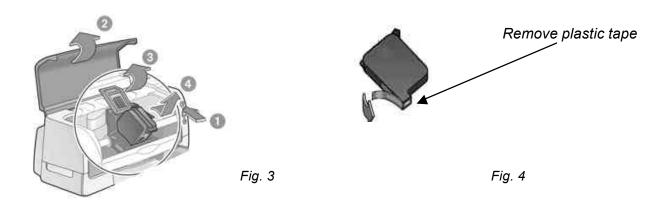
Place the inkjet printable CD Business Card or Mini Disc into the adaptor, ensuring that it sits completely flat. Press the CD Tray Button and the tray slides back into the printer. The Resume button light will go out at this point.

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SECTION 6: INSERTING/CHANGING THE PRINT CARTRIDGES

- 1. Press the Power Button to turn on the printer
- 2. Before installing or changing a print cartridge, you **MUST** insert a CD into the OptiPrinter. Press the CD Tray Button, place a CD onto the tray and press the CD Tray Button again. The tray will slide back into the printer. The Print Cartridge Status Light will flash
- 3. Open the top cover
- 4. The print cartridge cradle moves to the center of the printer (Fig. 3 on the next page)
- 5. Raise the cradle latch
- 6. Remove existing cartridge (if any) from the cradle
- 7. Remove the plastic tape from the print cartridge (Fig. 4 on the next page)
- 8. Hold the cartridge so that the copper strip is on the bottom and rear
- 9. Push the cartridge firmly into the cradle (color on the left, black on the right)
- 10. Secure the cradle latch, then, close the top cover.



SECTION 7: INSTALLING THE PRINTER SOFTWARE



Note:

The screen images that follow are from Windows 2000. Windows XP screens appear slightly different.

- 1. Connect the OptiPrinter to your PC (see Section 3)
- 2. Switch on your PC and the OptiPrinter. Your PC should automatically recognize that new hardware has been added in the form of the OptiPrinter and the "Digital Signature Not Found" message box (see Fig. 5 on the next page) will appear. You will be asked if you wish to continue installation, select **Yes**. In Windows XP, select **Continue Anyway**.

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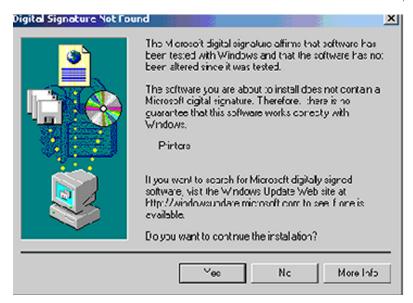


Fig. 5



The message, which appears above, is merely precautionary from Windows and it is not necessary to stop the installation.



If your PC does not recognize the new OptiPrinter hardware when you first connect it to your PC, you should load the print driver via the **Add Printer** icon on your Printer settings:

- a. Place the Print Drive CD into your PC's CD-ROM drive
- b. On you PC's desktop, select Start, Settings and Printers
- c. Double click the **Add Printer** icon and follow the on screen instructions
- d. When the Wizard asks for the name of the printer, click the **Have Disk** button and navigate to the ENU Release folder in the CD-ROM and select OK
- e. The driver will install on your PC
- f. When complete, select Finish and the MF Digital OptiPrinter print driver icon will appear in your printer settings
- Place the Printer Driver CD into the CD-ROM drive of your PC. 3.
- You will now be asked to locate the Printer Driver. Click on the Browse button (as shown in Fig. 6) and navigate to file on the Printer Driver CD, which you have just placed in your CD-ROM drive.



Fig. 6

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- Click Open and the file "ENU Release" will appear in the "Copy Files from" window as shown 5. above.
- 6. Click OK and the Print Driver will begin loading.
- 7. Once complete, click Finish. The print driver has now been loaded and your OptiPrinter is ready for use.



If at any point of the above installation process you encounter any problems, you should load the OptiPrinter Print Driver via the Add Printer icon on your printer settings as described on the previous page.

SECTION 8: INSTALLING DISCUS (Graphics Software)

Insert the Discus CD into your CD-ROM and follow the on-screen instructions.

SECTION 9: USING DISCUS SOFTWARE



Before using Discus, you need to disable the OptiPrinter's built in mask.

- On your desktop, click **Start**, **Settings** and then open your **Printers** folder.
- Right click the MF Digital OptiPrinter icon, and select "Properties" from the popup menu.
- Click "Printing Preferences..." and open the "Mask settings" tab *c*.
- Unclick the "Enable Masking" checkbox and click OK

Open Discus by clicking on its icon on your desktop. The screen on the next page will open.

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Select a label type

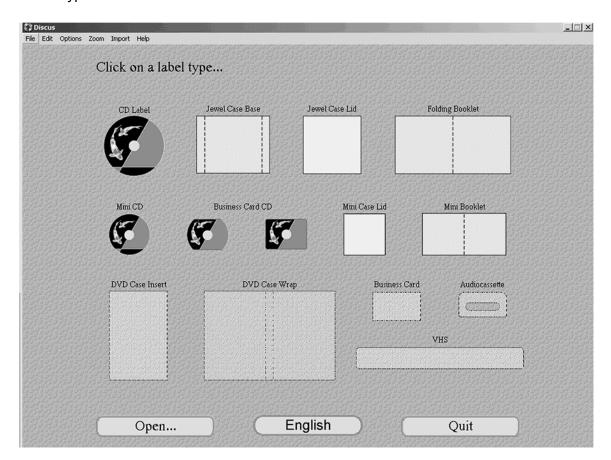


Fig.7



Use the tabs along the top to create your artwork

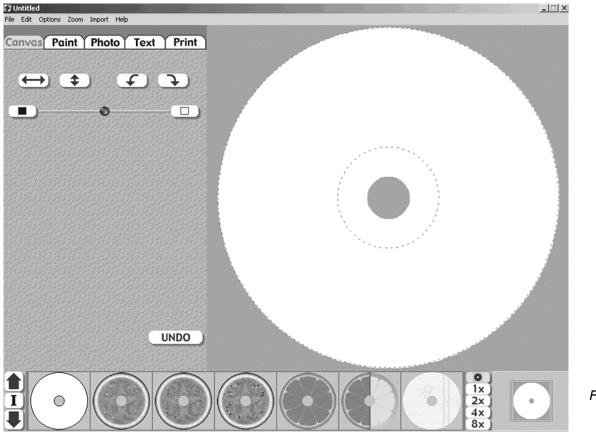


Fig. 8

Canvas: Select a blank canvas or choose from a wide selection of backgrounds included with Discus.

Paint: Draw and color your own vector shapes

Import jpeg, gif, tiff or BMP image files Photo:

Text: Add & manipulate text to your design



Full details of how to use Discus can be seen by clicking the Help Button on the Discus interface.

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Once your artwork is complete, select the "Print" tab

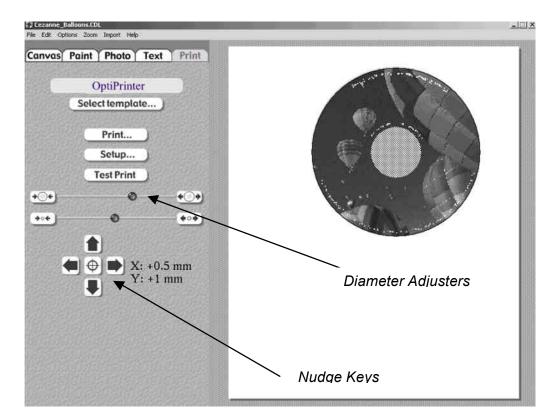


Fig. 9a

Choose the "MF Digital OptiPrinter" from the Select template menu

Next, select **Setup....** Choose the MF Digital OptiPrinter from the drop-down list of printers and ensure the **Paper Size** is set to **A4 (210 x 297mm)**, **Source** is set at **Upper Tray** and that **Orientation** is set at **Portrait**.



Note:

It is important that these settings are adhered to when printing with the OptiPrinter.

To ensure that your image is positioned correctly, select "Test Print".



Note:

The following command box (Fig. 9b on the next page) will appear each time you instruct the OptiPrinter to print, asking you to confirm whether you are ready to print. This allows you to check that you have placed a disc onto the CD tray and retracted it into the printer, ready to print.

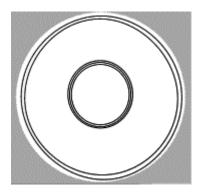
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Fig. 9b

A series of black circles will print onto the CD as shown in Fig. 10.





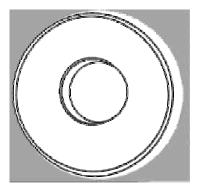


Fig. 11

You may find that the circles do not print centrally onto the disc as shown in Fig. 11 on the previous page, in which case you need to adjust the position of the template in Discus.

Use the nudge keys (as shown in Fig. 9a on the previous page) to move your template back & forth and up & down until your test prints centrally onto your disc.

Once the test print has been perfected, you are now ready to print the artwork you created. Place a blank CD into the CD tray. On the print tab, select "Print". Ensure that the OptiPrinter has been selected from the Print Properties and select "Print" again. Your OptiPrinter will begin to print your disc.



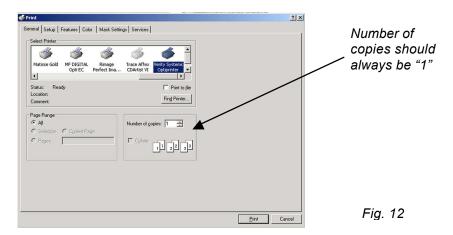
The printing surface on printable discs sometimes differs from manufacturer to manufacturer. Use the Diameter Adjuster (see Fig. 9a on previous page) to alter the printable area of our disc.

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DO NOT select multiple copies when printing directly to your OptiPrinter from you PC.



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SECTION 10: SETTING PRINTER PREFERENCES

You can choose a number of printing options on your OptiPrinter from the Printer Preferences menu.

10.1 Set-Up

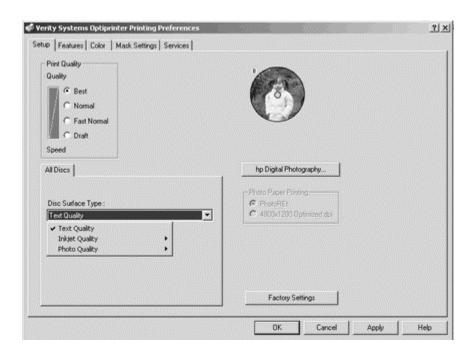


Fig. 13

Print Quality

There are 4 options to choose from: Best, Normal, Fast Normal and Draft. Best provides the best quality printing at the slowest speed. The print speed increases and the print quality lessens with Normal, Fast Normal and Draft. Draft provides draft quality at the fastest printing speed.

Disc Surface Type

The choice you make here will depend on the image you wish to print. If you are simply printing text onto a CD, then select Text Quality. If you are printing graphics, you would probably select Inkjet Quality. For images where only the very best quality will do, such as high-resolution photos, select Photo Quality.

If you select Photo Quality, you will be given a choice of PhotoREt or 4800x1200 Optimized dpi.

PhotoREt will ensure that tiny droplets of ink are placed accurately and at the highest firing frequency with no compromise in speed. Instead of simply increasing the dpi, which results in longer printing times, PhotoREt uses more color levels to deliver quality printing (see Fig. 14 on the next page)

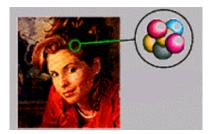
4800x1200 Optimized dpi will ensure that the image is printed to the very highest dpi resolution and may result in longer print times.

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Conventional Printing



PhotoREt Printing

Fig. 14

10.2 Features

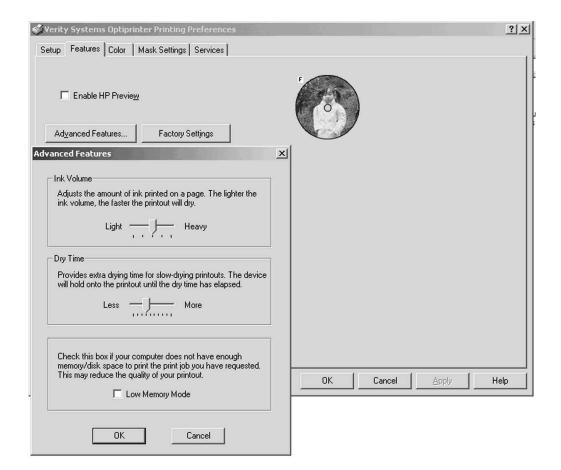


Fig. 15

Click the "**Enable HP**" preview and when you select print, a print preview will be displayed automatically each time you print.

If you select the "Advanced Features" button, you are given the following options:

Ink Volume: Select this feature to lessen or increase the amount of ink used to print a document.

Dry time: Select this feature to increase the time the printer holds a document After printing if ink on your printed document smears.

Low Memory Mode: Select this option to allow the draft to be printed if your computer does not have enough memory or disk space to print a document.

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10.3 Color

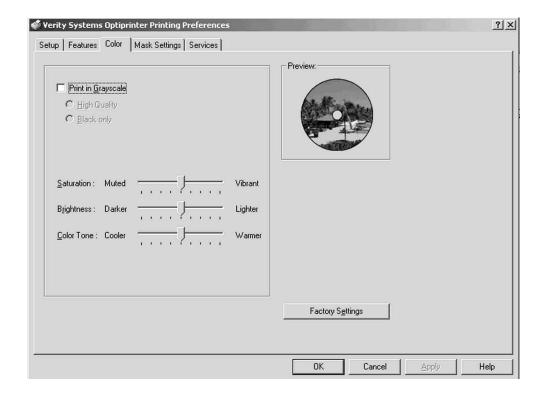


Fig. 16

Print in Grayscale: Print in shades of gray **Saturation:** Intensity of printed color

Brightness: Lightness or darkness or printed colors
Color Tone: Warmth or coolness of printed colors

10.4 Mask Settings

The OptiPrinter's built in mask determines the printable area for your image and prevents your image from being printed outside the printable area of the CD media you are using or onto the CD tray of the printer itself.

This mask should be used when printing discs using any design software program other Than the Discus software which is included with your printer; for example, CorelDRAW or Photoshop.

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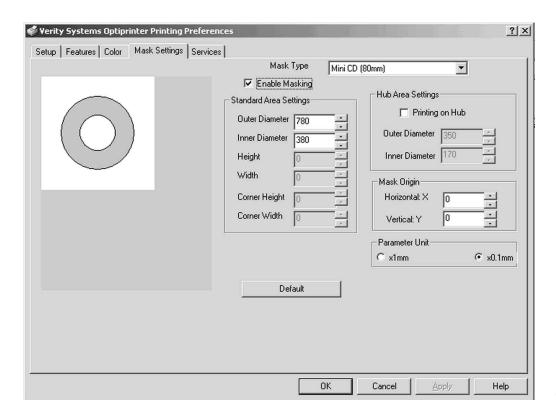


Fig. 17

Mask Type: Select the mask that matches the media to which you wish to

print on. Choose from the following:

Standard CD/DVD (120mm)

Business Card Rectangle (86x 61mm) Business Card Rectangle (80 x 61mm)

Mini CD (80mm)

Enable Mask: Click this checkbox to switch the OptiPrinter's mask on or off.

IMPORTANT. If you are using Discus software, you

MUST switch off the mask.

Standard Area

Setting:

Adjust the printable area of your design.

Hub Area Setting: To print on the central hub of a CD, check this box and adjust

dimensions accordingly.

Mask Origin: To alter the origin of the mask when printing through a graphics

package other than Discus.

Parameter Unit: Select the size of unit you wish to make changes with,

I.e., either 1mm or 0.1mm increments.

For more information on using the OptiPrinter Mask and using graphics software other than Discus, see Appendix A

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10.5 Services

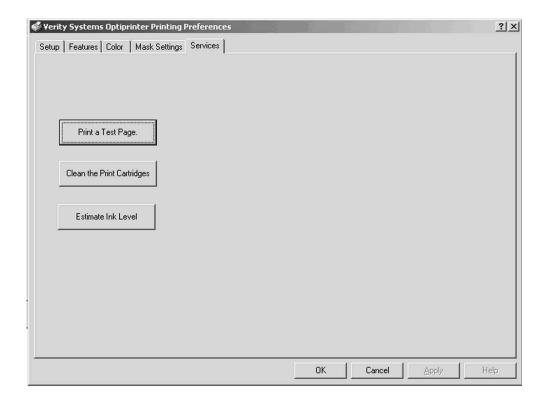


Fig. 18

Print a Test Page: Prints a test image onto a CD (ensure you have a disc in

the OptiPrinter before selecting this option).

Clean the Print Cartridges: Cleans the print cartridges & prints out a test image

(Ensure you have a disc in the OptiPrinter before

selecting this option).

Estimate Ink Levels: Estimates the amount of ink left in each cartridge.

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SECTION 11: ERRORS

You can identify many common problems using the lights on the printer's control panel. The Following list highlights common errors and the recommended corrective measures:

X

Cancel Button

4

Print Cartridge Status Light



Resume Button & Light



Power Button light

1. Printer Cartridge light is On or Flashing

The top cover is open Close the cover

Problem with print cartridge Verify correct cartridge is installed and that installation is

correct

Cartridges may be low in ink

If this is the case, the printer cartridge light will stop

flashing once the top cover is opened or the printer is printing. The problem is not related to the ink volume if the light continues to flash when the top cover is opened.

2. Power Light is Flashing

The printer is preparing to print.
The light stops flashing when the printer has received all

data.

3. All Lights are flashing

The printer may need to be restarted.

Press the Power Button to turn off the printer, then press the Power Button again to restart the printer.

If the lights continue to flash, press the Power Button to turn off the printer. Disconnect the printer from the power source. Reconnect the printer to the power source. Press the Power Button to turn on the printer.

4. Resume Button Light Flashes

When printing directly to the Optiprinter from your PC, if you send a subsequent copy to print too soon after you have sent your initial copy to print, the OptiPrinter may malfunction resulting in the Resume Button light to flash.

To prevent this from occurring, you should ensure that sufficient time has elapsed (approx. 10 seconds) before sending subsequent copies to your OptiPrinter.

To correct this problem:

- a. Ensure that a CD is placed on the CD tray and that the tray has been pulled back into the printer.
- b. Cancel any outstanding print job (Settings/Printers/Verity Systems OptiPrinter).
- c. Switch off the OptiPrinter by pressing the Power Button. All lights should now be eliminated.
- d. Disconnect the power cable from the back of the printer.
- e. Leave the OptiPrinter to rest for a minimum of 1 minute, before reconnecting the power cable and switching the printer back on using the Power button.
- f. The Power Button should be the only button light to become illuminated, indicating that the printer is now ready to print again.



SECTION 12: TECHNICAL SUPPORT

You should first attempt to get technical assistance from your dealer or distributor.

MF Digital support personnel can be reached at:

MF Digital

121 Carolyn Blvd. E. Farmingdale NY 11735 U.S.A.

Tel: (631) 249-9393 Ext. 310 E-mail: support@mfdigital.com

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APPENDIX A: Using other Graphics Software Packages

CoreIDRAW & Photoshop

While Discus offers a quick and easy method for designing CDs, if greater control & more flexibility is what you need, you may wish to use a package such as Photoshop or CorelDRAW to design your discs.

Create A Page

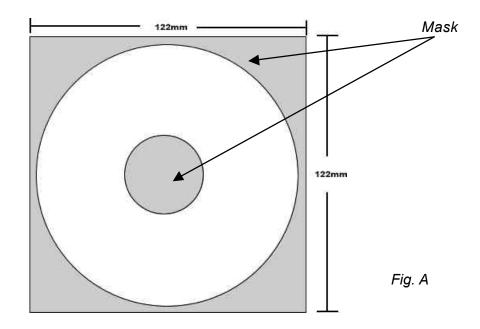
Like conventional inkjet printers, the OptiPrinter has been programmed with a standard paper size (see Fig. B on next page). For most desktop printers this paper size is A4 (210 x 297 mm) or Letter (8.5 x 11"), for the OptiPrinter, the paper size is set at 124 mm x 124 mm so that it accommodates a standard 120 mm CD or DVD plus smaller CD business cards & mini discs

If you wish to use CorelDRAW or Photoshop graphics software to create an image to print on the OptiPrinter, we recommend you start by creating a page 124 mm x 124 mm in your design software. This will ensure that any images you subsequently create on this page will fit onto the pre-set printer page.

Introducing the Mask

Unlike other CD & DVD printers on the market, the OptiPrinter boasts a unique and easy to use mask, which makes the accurate printing of CDs from graphics software packages such as CorelDRAW & Photoshop easier than ever before.

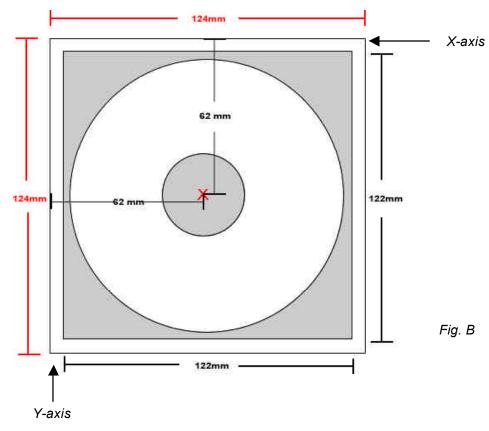
The OptiPrinter mask looks something like Fig.A and is 122mm x 122mm in size. The shaded area represents the mask itself and through the use of the mask, the printer is prevented from printing an image onto this area.



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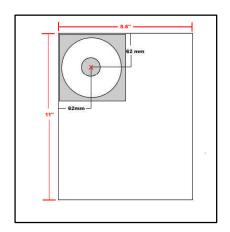


If you have created a 124 mm x 124 mm page, the OptiPrinter mask (whether it be for a standard 120mm CD, a rectangular CD business card or a mini disc) will sit, by default, centrally on this page as shown in the following example. The center point of the mask will sit exactly 62 mm from the X & Y axis.



Note:

If you do not create a 124 mm x 124 mm page in your graphics software package, the center of the mask will still be positioned 62 mm from the X & Y axis. See the example below:



Letter page example

Fig. C

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As you can see from Fig. A, the OptiPrinter mask covers a maximum area of 122mm x122mm. It is therefore important to note that any image you produce to print on the OptiPrinter should be **no greater than 122mm x 122mm** or your image will print outside the mask and onto the CD tray itself. See examples below in Fig. D.

Example A: Balloon image is 126x126mm and would therefore print **outside** of the 122x122mm mask





Example B:
Balloon Image is
121x121mm and
would therefore
print within the
boundaries of the
122x122mm mask

Understanding the Mask Interface

The OptiPrinter mask interface, located in the Printer Preferences, looks like this:

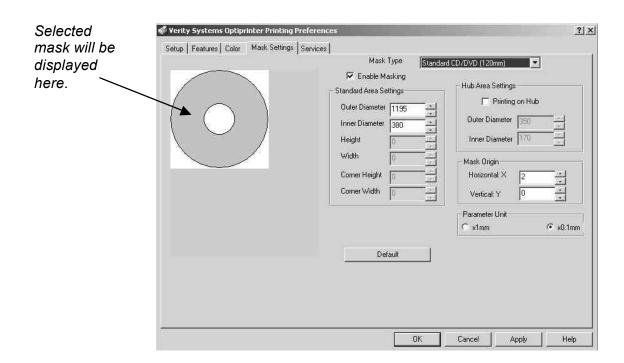


Fig. E

Using the mask, adjustments can be made to match exactly the size of media you wish to print. Each of the features included on the mask interface is described on the following pages:

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Mask Type:

The OptiPrinter has pre-determined masks for the following types of media:

120mm CDs & DVDs

86 x 61mm Rectangular CD Business Cards

86 x 61mm Rectangular CD Business Cards

80mm Mini CDs

Select the media you wish to print from the drop down list and a picture of that mask will appear on the interface (see Fig. E on the previous page).

Enable Mask:

Ensure this box is checked.

Standard Area Settings:

This feature allows you to adjust the print area of the mask. You can amend the following dimensions:

Outer Diameter - Can be used when printing standard 120mm CDs & DVDs and Mini



The maximum print area for a CD is 120mm in diameter. The mask will not accommodate and the printer will not print beyond this diameter.

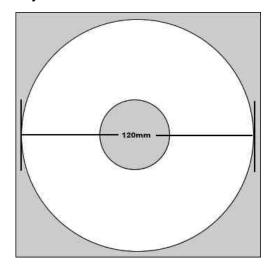


Fig. F

However, this outer diameter can be reduced to accommodate the slightest variation in printable media.

Inner Diameter: This can be increased or decreased in size

Height: To adjust the height of the mask for CD business cards Width: To adjust the width of the mask for CD business cards

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Corner Height: To adjust the corner height of the mask for CD business

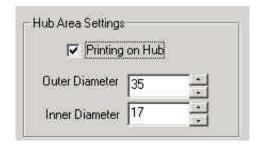
cards

Corner Width: To adjust the corner width of the mask for CD business

cards

Hub Area Settings:

To print on the hub of your chosen media, first check the "Printing on Hub" checkbox as shown in Fig. G.



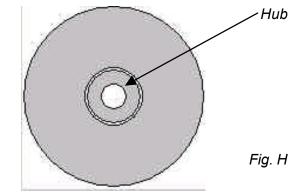


Fig. G

The mask interface displays the hub.

Once again the **Outer** & **Inner** diameters of the hub can be adjusted to fit your media's requirements exactly. See Fig. E, pg 24.

Mask Origin:

The mask origin refers to the position of the mask in relation to the actual printer page itself and is used to centralize the mask on the page.

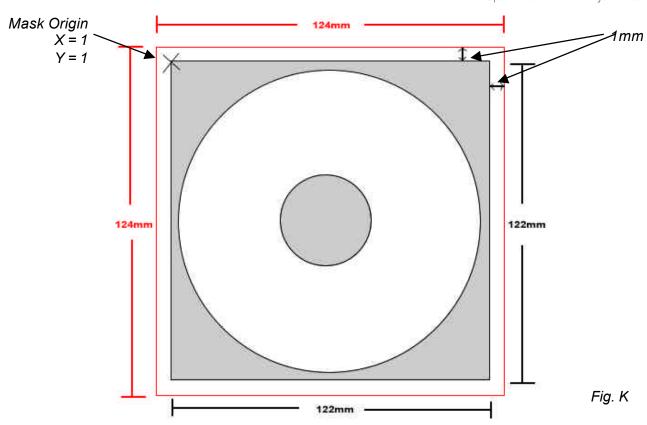
As explained previously, the OptiPrinter has a set page size of 124 mm x124 mm, and by default, the mask sits in the center of this page. The center of the mask sits on the 62mm point of the X & Y axis, while the origin of the mask (the top left hand corner) sits on the on the 1 mm x 1 mm point of the X & Y axis (see Fig. I and Fig. J on the next page)



Fig. I

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There may be circumstances in which you need to adjust the position of the mask in relation to the printer (i.e., different print area tolerances between different makes of media may require tiny adjustments). If this is the case, you can do so by changing the dimensions of the mask origin.

As you will see from the above diagram (Fig. K), the maximum distance you can move the mask is 1mm in any direction. It is therefore advisable to change the unit of parameter from x 1mm to x0.1mm as shown below in Fig. L. This way, tiny movements can be made to align the mask perfectly.



Fig. L

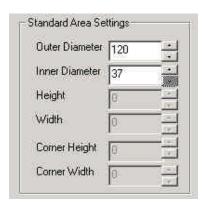
Parameter Unit:

As mentioned above, the parameter unit can be changed from x1 mm to x 0.1 mm movements allowing you to adjust your mask by tiny increments at a time so that a perfect mask can be achieved.

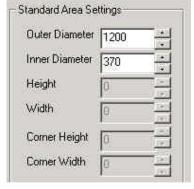
Changing this setting to x 0.1mm will result in all measurements on the Mask interface being shown as tenths of a millimeter as shown in Fig. M on the next page.

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Parameter Unit = x1mm



Parameter Unit = x0.1mm

Templates:

To help you position your images correctly in either CorelDRAW 11 or Photoshop7, templates are included on the CD enclosed.

Fig.M

These templates should be used as guides as to where to position your graphics in relation to the media you wish to print.

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APPENDIX B: RECOMMENDATIONS

Positioning your OptiPrinter

- Ensure your OptiPrinter is placed on a flat surface.
- Ensure there is sufficient ventilation around your printer.
- Avoid places subject to dust, moisture & vibrations.

Maintaining your Printer

- ◆ DO NOT force the print cartridge cradle always follow the correct procedures for changing ink cartridge (see section 5).
- DO NOT manually force the CD tray into the printer
- From time to time the CD tray of the OptiPrinter may collect deposits of ink where an image has printed directly onto the CD tray. To clean the tray simply wipe with a moist cloth.
- DO NOT put your hand or any other object inside the printer while it is printing.
- DO NOT spill liquid onto the printer

Getting the Most out of Your OptiPrinter

- If you wish to print photo-quality graphics onto your CDs & DVDs, the higher the input the higher the output.
- Use jpegs, tiff files that are 300dpi resolution

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